ELSEVIER

Journal of Organometallic Chemistry 579 (1999) 415–416

Journal of Organometallic Chemistry

# Author Index of Volume 579

Abu-Salah, O.M., 59
Ackland, M.J., 53
Aleksinskaya, V.I., 328
Al-Farhan, K.A., 59
Arnanz, A., 63

Baird, M.C., 106
Barton, A.J., 235
Bauer, W., 269
Baxter, R.J., 83, 90
Beck, W., 269
Benedek, C., 147
Bernatowicz, P., 133
Böcskei, Z., 182
Boss, K., 252
Brunet, J.-J., 198
Brunner, H., 1, 298

Campello, M.P.C., 5
Chatani, N., 177
Chauvin, R., 198
Chen, X.-N., 227, 304
Chernyavskaya, N.A., 328
Chernyavskii, A.I., 328
Chiang, M.Y., 211
Choi, D.S., 385
Chung, Y.K., 385
Csonka, I.P., 38
Cunningham, D., 252

Danks, T.N., 53
de Geest, D.J., 97
Delgado, S., 63
de Matos, A.P., 5
Denninger, U., 139
Dezember, T., 376
Domingos, Â., 5
Donnadieu, B., 198
Dowling, C., 252
du Mont, W.-W., 156

Ewart, S.W., 106

Farrar, D.H., 63
Faustmann, P., 1
Fernández-Galán, R., 321
Ferrand, V., 285
Fischer, R.W., 404
Fooken, U., 280
Fukumoto, Y., 177

Galakhov, M.V., 190
Galvão, A., 5
Garland, M.T., 285
Gimeno, M.C., 206
Goddard, R., 139
Godefroy, I., 285
Gómez, J.L., 63
Gómez-Sal, P., 190
Gömöry, Á., 147
Gorun, S.M., 217

Hakala, K., 164
Halterman, R.L., 356
Hannemann, F., 18
Harmat, V., 38
Haukka, M., 45
Heil, B., 147
Helaja, J., 164
Helaja, T., 164
Herrmann, W.A., 404
Hirsivaara, L., 45
Hitchcock, S.R., 338
Hockless, D.C.R., 75
Hong, S.H., 385
Horáček, M., 126, 348
Howells, M.E., 53
Huang, X.-Y., 227, 304
Humphrey, M.G., 75
Hwang, W.-S., 211

Jääskeläinen, S., 45
Ja'far, M.H., 59
Jones, P.G., 156, 206

Kahlal, S., 285
Kaminsky, W., 356
Kamitani, A., 177
Karasiak, D.F., 356
Keglevich, G., 182
Keserű, G.M., 182
Klimova Berestneva, T., 30
Klimova, E.I., 30
Knausz, D., 38
Knox, G.R., 83, 90
Kraatz, H.-B., 222
Krüger, C., 139
Kubicki, M., 321
Kupfer, V., 126

Laguna, A., 206
Lahiri, G.K., 311
Laitinen, R.H., 45
Lang, J.-P., 332
Langmaier, J., 348
Lee, L., 211
Lee, S.S., 385
Lee, T.R., 122
Leeson, M.A., 243
Levason, W., 235
Lin, C., 114
Löfgren, B., 164
Lokanath, N.K., 311
Lough, A., 63

Macazaga, M.-J., 63
Mach, K., 126, 348
Manning, A.R., 252
Manzano, B.R., 321
Marosi, G., 182
Marsmann, H.C., 156
Martínez García, M., 30
McArdle, P., 252
McLaughlin, M., 83
Medina, R.-M., 63
Mijolovic, D., 298
Moreno, C., 63
Morimoto, T., 177
Mörtl, M., 38
Mühle, S.H., 356
Müller, L., 156
Munshi, P., 311
Murai, S., 177

Nantz, M.H., 338
Neels, A., 285
Nicholson, B.K., 243
Niskanen, E., 45
Nuber, B., 1, 298

O'Keefe, B.J., 97
Olmstead, M.M., 338
Olsen, M.R., 243
Otero, A., 321

Paffen, F.-J., 391
Pakkanen, T.A., 45
Palandoken, H., 338
Pauson, P.L., 83, 90
Pedraz, T., 190
Pellinghelli, M.A., 190
Polášek, M., 126
Polborn, K., 269
Poujaud, N., 321
Prasad, J.S., 311
Pritzkow, H., 391
Purath, A., 373
Pursiainen, J., 45

Quindt, V., 376

Ravadits, I., 182
Reid, G., 235
Ren, T., 114
Royo, P., 190
Ruthe, F., 156
Ruíz Ramírez, L., 30

Saak, W., 280
Saillard, J.-Y., 285
Samanta, R., 311
Samec, Z., 348

PII: S0022-328X(99)00140-0

Santos, I., 5
Santra, B.K., 311
Sarroca, C., 206
Sarsfield, M.J., 106
Saurenz, D., 376
Schär, M., 376
Schmitt, O., 376
Schneider, J.J., 139
Schnöckel, H., 373
Schumann, H., 356
Sitzmann, H., 376
Spicer, M.D., 83, 90
Sridhar, M.A., 311
Steel, P.J., 97
Steinhauser, K., 182
Stibrany, R.T., 217
Stoeckli-Evans, H., 285
Sun, J., 227
Süss-Fink, G., 285
Szalontai, G., 147
Szepes, L., 38

Tatsumi, K., 332
Thepaut, E., 198
Thewalt, U., 126
Tian, G., 24
Tiripicchio, A., 190
Tőke, L., 182
Tõrös, S., 147

Uhl, W., 18
Újszászy, K., 182
Umezawa-Vizzini, K., 122

Valente, E.J., 114
Varga, V., 348
Vázquez de Miguel, A., 190

Wadepohl, H., 391
Wang, B., 24
Wang, D.-L., 211
Waterman, S.M., 75
Weidenbruch, M., 280
Weingarten, U., 356
Williams, E.F., 106
Wolf, D., 139
Wolmershäuser, G., 376
Wrackmeyer, B., 133, 298
Wyatt, J.K., 338

Xu, S., 24

Yin, Y.-Q., 227, 304

Zavin, B.G., 328
Zhang, J., 227, 304
Zhang, Y., 24
Zhou, X., 24
Zoller, J.P., 404
Zubkowski, J.D., 114

ELSEVIER

Journal of Organometallic Chemistry 579 (1999) 417–423

Journal of Organometallic Chemistry

# Subject Index of Volume 579

Acetylacetonate complexes
Cyclometallated compounds. XIII. Cyclopalladation of 2-phenoxypyridine and structurally-related compounds, 97
Acylchlorophosphine
Synthesis and reactivity of acylphosphine tetracarbonyl–iron complexes, 198
Acylphosphine
Synthesis and reactivity of acylphosphine tetracarbonyl–iron complexes, 198
$^{109}$Ag-NMR
NMR analysis of trinuclear silver(I) complexes with $\mu_2$-H bridged group VI metallocene hydrides as ligands and X-ray structure analysis of $\{[(\eta^5\text{-}MeC_5H_4)_2Mo(\mu_2\text{-}H)_2]_2Ag\}PF_6$, 298
Al(I) compounds
Tetrakis[tris(trimethylsilyl)silylaluminium(I)] $Al_4[Si(SiMe_3)_3]_4$—eine siliziumreicheVerbindung mit zentralem tetraedrischem $Al_4$-Kern, 373
Alkenylindenes
Synthesis and characterization of 1- and 2-(ω-alken-1-yl)indenes, their lithium salts and dichlorozirconium(IV) complexes, 356
Alkenylindenyl lithium salts
Synthesis and characterization of 1- and 2-(ω-alken-1-yl)indenes, their lithium salts and dichlorozirconium(IV) complexes, 356
Alkenyl indenyl zirconium complexes
Synthesis and characterization of 1- and 2-(ω-alken-1-yl)indenes, their lithium salts and dichlorozirconium(IV) complexes, 356
Alkylation
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30
Alkyne-bridged complex
Preparation and characterization of $Mo_2C_2$, $Co_2Mo_2C_2$ clusters containing functionally substituted cyclopentadienyl ligands. The crystal structures of $[Mo_2(\mu\text{-}C_2HPh)(CO)_4(\eta^5\text{-}C_5H_4C(O)Me)_2]$ and $[Co_2Mo_2(\mu_4\text{-}C_2HPh)(\mu\text{-}CO)_4(CO)_4(\eta^5\text{-}C_5H_4C(O)Me)_2]$, 304
Alkynyl cluster
The synthesis, identification, and X-ray structure of a novel cationic alkynyl silver cluster polymer $[Ag_3(C_2Bu^t)_2^+]_n$, 59
Alkynylphosphonate
The preparation and reactions of alkynylphosphonate hexacarbonyldicobalt complexes, 83
Allyl
Synthesis and characterization of new allyl palladium complexes with thionate ligands; X-ray molecular structures of $[Pd_3(\eta^3\text{-}C_4H_7)_3\{pm(Me)_2S\}_2](CF_3SO_3)$ and $[Pd\{pm(Me)_2\text{-}S\}_2]$, $\eta^3\text{-}C_4H_7 = \eta^3\text{-}2\text{-}Me\text{–}C_3H_4$, $pm(Me)_2S$ = Pyridine-4,6-dimethyl-2-thionate, 321
Allyl complexes
Bimetallische Allylkomplexe polycyclischer Kohlenwasserstoffe: Erste Beispiele aus der Übergangsmetallchemie, 139
Aluminium
A methylene bridged dialuminium compound as a chelating Lewis acid—complexation of azide and acetate anions by $R_2Al\text{–}CH_2\text{–}AlR_2$ [$R = CH(SiMe_3)_2$], 18
*ansa*-Titanocenes
Reductive dehydroxy coupling of 2-(hydroxymethyl)indenes to prepare ethano-bridged bis(2-indenyl) *ansa*-titanocenes, 338
2-Arylazopyridine
Silicagel support mediated nonphotolytic cleavage of the rhenium–rhenium bond of $[\{NC_5H_4N{=}NC_6H_4(R)\}(CO)_3Re^0]_2$. Synthesis of the monomeric species $Re^I\{NC_5H_4N{=}NC_6H_4(R)\}(CO)_3Cl$, crystal structure, spectroscopic and electron-transfer properties, 311
Binuclear complexes
Synthesis and structures of paramagnetic binuclear ($\eta^8$-1,4-bis(trimethylsilyl)cyclooctatetraenide)titanium(III) chlorides, 126
Bis(trimethylsilyl)cyclooctatetraene dianion
Synthesis and structures of paramagnetic binuclear ($\eta^8$-1,4-bis(trimethylsilyl)cyclooctatetraenide)titanium(III) chlorides, 126
Bridged trinuclear Ag–Mo- and Ag–W-hydride complexes
NMR analysis of trinuclear silver(I) complexes with $\mu_2$-H bridged group VI metallocene hydrides as ligands and X-ray structure analysis of $\{[(\eta^5\text{-}MeC_5H_4)_2Mo(\mu_2\text{-}H)_2]_2Ag\}PF_6$, 298
Butadiynyl
Synthesis and characterization of new transition metal diynyl complexes, 63

Carbohydrates
Bimetallische Allylkomplexe polycyclischer Kohlenwasserstoffe: Erste Beispiele aus der Übergangsmetallchemie, 139
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst, 404
Carbon monoxide
$Ru_3(CO)_{12}$-catalyzed reaction of yne–imines with carbon monoxide leading to bicyclic α,β-unsaturated lactams, 177
Carbonyl
Organometallic derivatives of multidentate phosphines [*o*-(methylthio)phenyl]diphenylphosphine and bis(*o*-(methylthio)phenyl(phenylphosphine: preparation and characterization of group 6 metal carbonyl derivatives, 45
Synthesis and characterization of the cluster compounds containing double $C_2M_2$ (M=Co, Mo) cores. The single-crystal X-ray structures of $[O(CH_2C_2H\text{-}\mu)_2][Co_2(CO)_6]_2$ and $[O(CH_2C_2H\text{-}\mu)_2][Mo_2(C_5H_5)_2(CO)_4]_2$, 227
The reaction of $[Fe_2(\eta\text{-}C_5H_5)_2(CO)(CNMe)(\mu\text{-}CO)(\mu\text{-}CNMe_2)]^+$ and related salts with trifluoromethanesulphonic acid, $HOSO_2CF_3$: structure of *cis*-$[Fe_2(\eta\text{-}C_5H_5)_2(CO)_2(\mu\text{-}CNMe)(\mu\text{-}CNMe_2)]$ $[BPh_4]$, 252

PII: S0022-328X(99)00141-2

Carbonylation
A study on the catalytic pathways of the hydroalkoxycarbonylation reaction of styrene, 147
On the behaviour of dimethyl acetylenedicarboxylate in carbonylation and Khand reactions, 90
Carbonyl complexes
Synthesis and characterization of new transition metal diynyl complexes, 63
Carbonyl substitution
Complete carbonyl substitution in tricarbonylnitrosylcobalt, 1
Catalysis
A study on the catalytic pathways of the hydroalkoxycarbonylation reaction of styrene, 147
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst, 404
Catalyst
Crystal structures and polymerization catalytic properties of 1,1,-2,2-tetramethyldisilane-bis(3-*t*-butyl-$\eta^5$-cyclopentadienyl)-titanium and zirconium dichlorides, 24
Cation
Synthesis and single-crystal X-ray structure of $[(DMPE)_2Ru(CH_2H_4)CH_3]^+[(3,5\text{-}(CF_3)_2C_6H_3)_4B]^-$, 122
Chelates
A methylene bridged dialuminium compound as a chelating Lewis acid—complexation of azide and acetate anions by $R_2Al{-}CH_2{-}AlR_2$ [R = $CH(SiMe_3)_2$], 18
Chiral
Reductive dehydroxy coupling of 2-(hydroxymethyl)indenes to prepare ethano-bridged bis(2-indenyl) *ansa*-titanocenes, 338
Chloride bridges
Synthesis and structures of paramagnetic binuclear ($\eta^8$-1,4-bis-(trimethylsilyl)cyclooctatetraenide)titanium(III) chlorides, 126
Chromium
Ditelluroether complexes of Group 6 metal carbonyls: synthesis, spectroscopic studies and a comparison with dithio- and diseleno-ether analogues, 235
Cleavage of rhenium–rhenium bond
Silicagel support mediated nonphotolytic cleavage of the rhenium–rhenium bond of $[\{NC_5H_4N{=}NC_6H_4(R)\}\text{-}(CO)_3Re^0]_2$. Synthesis of the monomeric species $Re^I\{NC_5H_4N{=}NC_6H_4(R)\}(CO)_3Cl$, crystal structure, spectroscopic and electron-transfer properties, 311
Cluster
Electron-deficient triruthenium and triosmium clusters from the reaction of the cluster anions $[HM_3(CO)_{11}]^-$ (M = Ru, Os) with tricyclohexylphosphine in methanol, 285
Reactions of $[PPh_4][(\eta^5\text{-}C_5Me_5)WS_3]$ with CuBr in $CHCl_3$: isolation and structures of an octanuclear cluster $[(\eta^5\text{-}C_5Me_5)WS_3Cu]_4$ and a trinuclear cluster $[(\eta^5\text{-}C_5Me_5)WS_3\text{-}Cu_2Br(PPh_3)_2]$, 332
Synthesis and characterization of the cluster compounds containing double $C_2M_2$ (M=Co, Mo) cores. The single-crystal X-ray structures of $[O(CH_2C_2H\text{-}\mu)_2][Co_2(CO)_6]_2$ and $[O(CH_2C_2H\text{-}\mu)_2][Mo_2(C_5H_5)_2(CO)_4]_2$, 227
C,N bridging oxazolone
Metal complexes of biologically important ligands, CXIV ferrocenyl–oxazolones as N and C donors in Pd(II), Pt(II) and Ir(III) complexes and ferrocenoyl–dipeptides, 269
Cobalt
Bimetallische Allylkomplexe polycyclischer Kohlenwasserstoffe: Erste Beispiele aus der Übergangsmetallchemie, 139
Synthesis and characterization of new transition metal diynyl complexes, 63
Cobalt carbonyl
On the behaviour of dimethyl acetylenedicarboxylate in carbonylation and Khand reactions, 90
The preparation and reactions of alkynylphosphonate hexacarbonyldicobalt complexes, 83
Cobalt complex
Complete carbonyl substitution in tricarbonylnitrosylcobalt, 1
Preparation and characterization of $Mo_2C_2$, $Co_2Mo_2C_2$ clusters containing functionally substituted cyclopentadienyl ligands. The crystal structures of $[Mo_2(\mu\text{-}C_2HPh)(CO)_4(\eta^5\text{-}C_5H_4C(O)Me)_2]$ and $[Co_2Mo_2(\mu_4\text{-}C_2HPh)(\mu\text{-}CO)_4(CO)_4\text{-}(\eta^5\text{-}C_5H_4C(O)Me)_2]$, 304
Complex
Organometallic derivatives of multidentate phosphines [*o*-(methylthio)phenyl]diphenylphosphine and bis(*o*-(methylthio)phenyl(phenylphosphine: preparation and characterization of group 6 metal carbonyl derivatives, 45
Conformation
Geometry and electronic structure of silylated hydroxylamine and carbamic acid derivatives, 38
Coordination polymer
The synthesis, identification, and X-ray structure of a novel cationic alkynyl silver cluster polymer $[Ag_3(C_2Bu^t)_2^+]_n$, 59
Copper complex
Reactions of $[PPh_4][(\eta^5\text{-}C_5Me_5)WS_3]$ with CuBr in $CHCl_3$: isolation and structures of an octanuclear cluster $[(\eta^5\text{-}C_5Me_5)WS_3Cu]_4$ and a trinuclear cluster $[(\eta^5\text{-}C_5Me_5)WS_3\text{-}Cu_2Br(PPh_3)_2]$, 332
Coupling constants
Tetrakis(trimethylstannyl) and bis(trimethylstannyl)dimethyl Group 14 element compounds, determination of coupling signs and measurements of isotope induced chemical shifts $^1\Delta^{12/13}C(^{119}Sn)$, 133
Crystal structure
Cyclometallated compounds. XIII. Cyclopalladation of 2-phenoxypyridine and structurally-related compounds, 97
Synthesis and structures of paramagnetic binuclear ($\eta^8$-1,4-bis(trimethylsilyl)cyclooctatetraenide)titanium(III) chlorides, 126
Complexes exhibiting non-conventional solubility: synthesis and characterization of *trans*-$Pt[(CF_3(CF_2)_5(CH_2)_2)_3P]_2Cl_2$, 217
Preparation and characterization of $Mo_2C_2$, $Co_2Mo_2C_2$ clusters containing functionally substituted cyclopentadienyl ligands. The crystal structures of $[Mo_2(\mu\text{-}C_2HPh)(CO)_4(\eta^5\text{-}C_5H_4C(O)Me)_2]$ and $[Co_2Mo_2(\mu_4\text{-}C_2HPh)(\mu\text{-}CO)_4(CO)_4\text{-}(\eta^5\text{-}C_5H_4C(O)Me)_2]$, 304
Synthesis and characterization of the cluster compounds containing double $C_2M_2$ (M=Co, Mo) cores. The single-crystal X-ray structures of $[O(CH_2C_2H\text{-}\mu)_2][Co_2(CO)_6]_2$ and $[O(CH_2C_2H\text{-}\mu)_2][Mo_2(C_5H_5)_2(CO)_4]_2$, 227
Synthesis and electrochemistry of ferrocenemethylamine and its conjugated acid. Crystal structure of ferrocenemethylammonium chloride, 222
Cubane
Hydrogenation of (1-phenylthiophene)$Mn(CO)_3$ (thiophene = 3-methylthiophene and 3,4-dimethylthiophene) complexes: formation of tetrakis(tricarbonyl-phenylthiomanganese), 385
Cyclic voltammetry
Metal complexes of biologically important ligands, CXIV ferrocenyl–oxazolones as N and C donors in Pd(II), Pt(II) and Ir(III) complexes and ferrocenoyl–dipeptides, 269
Synthesis, redox chemistry, molecular and electronic structure of some cyclopentadienylcobalt pentafulvene complexes, 391
Substituent effects in cyclic voltammetry of titanocene dichlorides, 348

Cycloaddition
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30
Cyclocarbonylation
$Ru_3(CO)_{12}$-catalyzed reaction of yne–imines with carbon monoxide leading to bicyclic $\alpha,\beta$-unsaturated lactams, 177
Cyclodimerization
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30
Cycloheptane
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30
Cyclohexane
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30
Cyclolinear oligosilane-siloxanes
New cyclolinear permethyloligosilane-siloxanes, 328
Cyclometalation
Reaction of *N*-(3-methyl-2-thienylmethylidene)aniline with diiron nonacarbonyl: cyclometalation induced methyl migration, imidoyl complex formation, and hydrogenation, 211
Cyclometallation reactions
Cyclometallated compounds. XIII. Cyclopalladation of 2-phenoxypyridine and structurally-related compounds, 97
Cyclopentadienone
The preparation and reactions of alkynylphosphonate hexacarbonyldicobalt complexes, 83
Cyclopentadienyl
Cyclopentadienyl dithiocarbamate and dithiophosphate molybdenum and tungsten complexes, 190
Synthesis and characterization of new transition metal diynyl complexes, 63
Synthesis and characterization of the cluster compounds containing double $C_2M_2$ (M=Co, Mo) cores. The single-crystal X-ray structures of $[O(CH_2C_2H\text{-}\mu)_2][Co_2(CO)_6]_2$ and $[O(CH_2C_2H\text{-}\mu)_2][Mo_2(C_5H_5)_2(CO)_4]_2$, 227
The reaction of $[Fe_2(\eta\text{-}C_5H_5)_2(CO)(CNMe)(\mu\text{-}CO)(\mu\text{-}CNMe_2)]^+$ and related salts with trifluoromethanesulphonic acid, $HOSO_2CF_3$: structure of *cis*-$[Fe_2(\eta\text{-}C_5H_5)_2(CO)_2(\mu\text{-}CNMe)(\mu\text{-}CNMe_2)]$ $[BPh_4]$, 252
Cyclopentadienylcobalt pentafulvene complexes
Synthesis, redox chemistry, molecular and electronic structure of some cyclopentadienylcobalt pentafulvene complexes, 391

Deprotonation
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30
Diarylformamidinates
Probing diruthenium $\sigma$-alkynyl bonding interactions via substituent effects. Linear free energy relationships in dinuclear compounds VI, 114
$\alpha,\omega$-Dichlorooligosilanes
New cyclolinear permethyloligosilane-siloxanes, 328
Diferrocenylphenylphosphine
Synthesis of gold-(I) and -(III) complexes with diferrocenylphenylphosphine ($PFc_2Ph$). Crystal structure of $[Au(PFc_2Ph)_2]ClO_4$, 206
Dimethyl acetylenedicarboxylate
On the behaviour of dimethyl acetylenedicarboxylate in carbonylation and Khand reactions, 90
Diruthenium complexes
Probing diruthenium $\sigma$-alkynyl bonding interactions via substituent effects. Linear free energy relationships in dinuclear compounds VI, 114
Diselenoether
Ditelluroether complexes of Group 6 metal carbonyls: synthesis, spectroscopic studies and a comparison with dithio- and diseleno-ether analogues, 235
Disproportionation
Trichlorosilylation of chlorogermanes and chlorostannanes with $HSiCl_3/Net_3$ followed by base-catalysed formation of $(Me_3Ge)_2Si(SiCl_3)_2$ and related branched stannylsilanes, 156
Ditelluroether
Ditelluroether complexes of Group 6 metal carbonyls: synthesis, spectroscopic studies and a comparison with dithio- and diseleno-ether analogues, 235
Dithiocarbamate
Cyclopentadienyl dithiocarbamate and dithiophosphate molybdenum and tungsten complexes, 190
Dithioether
Ditelluroether complexes of Group 6 metal carbonyls: synthesis, spectroscopic studies and a comparison with dithio- and diseleno-ether analogues, 235
Dithiophosphate
Cyclopentadienyl dithiocarbamate and dithiophosphate molybdenum and tungsten complexes, 190
DMPE
Synthesis and single-crystal X-ray structure of $[(DMPE)_2Ru(CH_2\text{-}H_4)CH_3]^+[(3,5\text{-}(CF_3)_2C_6H_3)_4B]^-$, 122

EHMO calculations
Derivative chemistry of $[UCl_2\{B(pz)_4\}_2]$: stability of complexes containing the fragments $[U\{B(pz)_4\}_2]$ and $[U\{HB(pz)_3\}_2]$, 5
Electron transfer
Silicagel support mediated nonphotolytic cleavage of the rhenium–rhenium bond of $[\{NC_5H_4N{=}NC_6H_4(R)\}\text{-}(CO)_3Re^0]_2$. Synthesis of the monomeric species $Re^I\{NC_5H_4N{=}NC_6H_4(R)\}(CO)_3Cl$, crystal structure, spectroscopic and electron-transfer properties, 311
*Endo* enamine complexes
Stereochemical factors associated with the rearrangement of (2-ethyl-1-azabuta-1,3-diene)tricarbonyliron(0) complexes, 53
Energy profile
The ability of 2-phosphabicyclo[2.2.2]oct-5-ene 2-oxides to undergo fragmentation of the bridging P-moiety, 182
EPR
Synthesis, redox chemistry, molecular and electronic structure of some cyclopentadienylcobalt pentafulvene complexes, 391
ESR spectra
Synthesis and structures of paramagnetic binuclear ($\eta^8$-1,4-bis(trimethylsilyl)cyclooctatetraenide)titanium(III) chlorides, 126
Ethene polymerization
Synthesis and characterization of 1- and 2-($\omega$-alken-1-yl)indenes, their lithium salts and dichlorozirconium(IV) complexes, 356
Ethylene
Synthesis and single-crystal X-ray structure of $[(DMPE)_2Ru\text{-}(CH_2H_4)CH_3]^+[(3,5\text{-}(CF_3)_2C_6H_3)_4B]^-$, 122

Fenske–Hall MO calculations
Synthesis, redox chemistry, molecular and electronic structure of some cyclopentadienylcobalt pentafulvene complexes, 391
Ferrocene
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30

Synthesis of gold-(I) and -(III) complexes with diferrocenylphenylphosphine ($PFc_2Ph$). Crystal structure of $[Au(PFc_2Ph)_2]ClO_4$, 206
Ferrocenemethylamine
Synthesis and electrochemistry of ferrocenemethylamine and its conjugated acid. Crystal structure of ferrocenemethylammonium chloride, 222
Ferrocenoyl marked dipeptides
Metal complexes of biologically important ligands, CXIV ferrocenyl–oxazolones as N and C donors in Pd(II), Pt(II) and Ir(III) complexes and ferrocenoyl–dipeptides, 269
2-Ferrocenyl-5(4H)-oxazolones
Metal complexes of biologically important ligands, CXIV ferrocenyl–oxazolones as N and C donors in Pd(II), Pt(II) and Ir(III) complexes and ferrocenoyl–dipeptides, 269
Fluxionality
Mixed-metal cluster chemistry XII: isocyanide derivatives of $[Cp\text{-}WIr_3(CO)_{11}]$; X-ray crystal structure of $[Cp\text{-}WIr_3(CO)_9(CNC_6H_3Me_2\text{-}2,6)_2]$, 75
Functionalized alkenes
Interaction of oxygen functionalized alkenes with a methylaluminoxane–zirconocene catalyst studied by NMR, 164

Germanium
Tetrakis(trimethylstannyl) and bis(trimethylstannyl)dimethyl Group 14 element compounds, determination of coupling signs and measurements of isotope induced chemical shifts $^1\Delta^{12/13}C(^{119}Sn)$, 133
Gold
Synthesis of gold-(I) and -(III) complexes with diferrocenylphenylphosphine ($PFc_2Ph$). Crystal structure of $[Au(PFc_2Ph)_2]ClO_4$, 206
Group 11
The synthesis, identification, and X-ray structure of a novel cationic alkynyl silver cluster polymer $[Ag_3(C_2Bu^t)_2^+]_n$, 59

Hammett correlation
Probing diruthenium $\sigma$-alkynyl bonding interactions via substituent effects. Linear free energy relationships in dinuclear compounds VI, 114
HBr
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst, 404
Heterodonor ligand
Organometallic derivatives of multidentate phosphines [*o*-(methylthio)phenyl]diphenylphosphine and bis(*o*-(methylthio)phenyl(phenylphosphine: preparation and characterization of group 6 metal carbonyl derivatives, 45
Heterofunctional condensation
New cyclolinear permethyloligosilane-siloxanes, 328
$^1$H-NMR
NMR analysis of trinuclear silver(I) complexes with $\mu_2$-H bridged group VI metallocene hydrides as ligands and X-ray structure analysis of $\{[(\eta^5\text{-}MeC_5H_4)_2Mo(\mu_2\text{-}H)_2]_2Ag\}PF_6$, 298
Hydrido
Electron-deficient triruthenium and triosmium clusters from the reaction of the cluster anions $[HM_3(CO)_{11}]^-$ (M = Ru, Os) with tricyclohexylphosphine in methanol, 285
Hydrodesulfurization
Hydrogenation of (1-phenylthiophene)$Mn(CO)_3$ (thiophene = 3-methylthiophene and 3,4-dimethylthiophene) complexes: formation of tetrakis(tricarbonyl-phenylthiomanganese), 385
Hydrogenation
Reaction of *N*-(3-methyl-2-thienylmethylidene)aniline with diiron nonacarbonyl: cyclometalation induced methyl migration, imidoyl complex formation, and hydrogenation, 211

Imidazole-3-methyl-2-thionate
Synthesis and characterization of new allyl palladium complexes with thionate ligands; X-ray molecular structures of $[Pd_3(\eta^3\text{-}C_4H_7)_3\{pm(Me)_2S\}_2](CF_3SO_3)$ and $[Pd\{pm(Me)_2\text{-}S\}_2]$, $\eta^3\text{-}C_4H_7 = \eta^3\text{-}2\text{-}Me\text{–}C_3H_4$, $pm(Me)_2S$ = Pyridine-4,6-dimethyl-2-thionate, 321
Imidoyl complex
Reaction of *N*-(3-methyl-2-thienylmethylidene)aniline with diiron nonacarbonyl: cyclometalation induced methyl migration, imidoyl complex formation, and hydrogenation, 211
Iminophosphorane
Orthomanganation of the iminophosphorane $Ph_3P$=NPh, and of triphenylarsine-oxide and -sulfide, 243
Indenyl
Reductive dehydroxy coupling of 2-(hydroxymethyl)indenes to prepare ethano-bridged bis(2-indenyl) *ansa*-titanocenes, 338
Iridium carbonyl
Mixed-metal cluster chemistry XII: isocyanide derivatives of $[Cp\text{-}WIr_3(CO)_{11}]$; X-ray crystal structure of $[Cp\text{-}WIr_3(CO)_9(CNC_6H_3Me_2\text{-}2,6)_2]$, 75
Iron
The reaction of $[Fe_2(\eta\text{-}C_5H_5)_2(CO)(CNMe)(\mu\text{-}CO)(\mu\text{-}CNMe_2)]^+$ and related salts with trifluoromethanesulphonic acid, $HOSO_2CF_3$: structure of *cis*-$[Fe_2(\eta\text{-}C_5H_5)_2(CO)_2(\mu\text{-}CNMe)(\mu\text{-}CNMe_2)]$ $[BPh_4]$, 252
Isocyanide
Mixed-metal cluster chemistry XII: isocyanide derivatives of $[Cp\text{-}WIr_3(CO)_{11}]$; X-ray crystal structure of $[Cp\text{-}WIr_3(CO)_9(CNC_6H_3Me_2\text{-}2,6)_2]$, 75
The reaction of $[Fe_2(\eta\text{-}C_5H_5)_2(CO)(CNMe)(\mu\text{-}CO)(\mu\text{-}CNMe_2)]^+$ and related salts with trifluoromethanesulphonic acid, $HOSO_2CF_3$: structure of *cis*-$[Fe_2(\eta\text{-}C_5H_5)_2(CO)_2(\mu\text{-}CNMe)(\mu\text{-}CNMe_2)]$ $[BPh_4]$, 252

Khand reaction
On the behaviour of dimethyl acetylenedicarboxylate in carbonylation and Khand reactions, 90

Lactam
$Ru_3(CO)_{12}$-catalyzed reaction of yne–imines with carbon monoxide leading to bicyclic $\alpha,\beta$-unsaturated lactams, 177
Lewis acids
A methylene bridged dialuminium compound as a chelating Lewis acid—complexation of azide and acetate anions by $R_2Al\text{–}CH_2\text{–}AlR_2$ [R = $CH(SiMe_3)_2$], 18
Lithium amide
Stereochemical factors associated with the rearrangement of (2-ethyl-1-azabuta-1,3-diene)tricarbonyliron(0) complexes, 53

Manganese
Bulky peralkylated cyclopentadienes by extension of Jutzi's pentamethylcyclopentadiene procedure, 376
Hydrogenation of (1-phenylthiophene)$Mn(CO)_3$ (thiophene = 3-methylthiophene and 3,4-dimethylthiophene) complexes: formation of tetrakis(tricarbonyl-phenylthiomanganese), 385
Orthomanganation of the iminophosphorane $Ph_3P$=NPh, and of triphenylarsine-oxide and -sulfide, 243
Mechanism
A study on the catalytic pathways of the hydroalkoxycarbonylation reaction of styrene, 147
Metallocene
Reductive dehydroxy coupling of 2-(hydroxymethyl)indenes to prepare ethano-bridged bis(2-indenyl) *ansa*-titanocenes, 338

Methyl migration
Reaction of *N*-(3-methyl-2-thienylmethylidene)aniline with diiron nonacarbonyl: cyclometalation induced methyl migration, imidoyl complex formation, and hydrogenation, 211
Methyltrioxorhenium
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst, 404
Molybdenum
Cyclopentadienyl dithiocarbamate and dithiophosphate molybdenum and tungsten complexes, 190
Ditelluroether complexes of Group 6 metal carbonyls: synthesis, spectroscopic studies and a comparison with dithio- and diseleno-ether analogues, 235
Synthesis and characterization of new transition metal diynyl complexes, 63
Molybdenum complex
Preparation and characterization of $Mo_2C_2$, $Co_2Mo_2C_2$ clusters containing functionally substituted cyclopentadienyl ligands. The crystal structures of $[Mo_2(\mu\text{-}C_2HPh)(CO)_4(\eta^5\text{-}C_5H_4C(O)Me)_2]$ and $[Co_2Mo_2(\mu_4\text{-}C_2HPh)(\mu\text{-}CO)_4(CO)_4\text{-}(\eta^5\text{-}C_5H_4C(O)Me)_2]$, 304
$^{95}$Mo-NMR
NMR analysis of trinuclear silver(I) complexes with $\mu_2$-H bridged group VI metallocene hydrides as ligands and X-ray structure analysis of $\{[(\eta^5\text{-}MeC_5H_4)_2Mo(\mu_2\text{-}H)_2]_2Ag\}PF_6$, 298

Nickel
Bimetallische Allylkomplexe polycyclischer Kohlenwasserstoffe: Erste Beispiele aus der Übergangsmetallchemie, 139
*N*-(3-methyl-2-thienylmethylidene)aniline
Reaction of *N*-(3-methyl-2-thienylmethylidene)aniline with diiron nonacarbonyl: cyclometalation induced methyl migration, imidoyl complex formation, and hydrogenation, 211
NMR
Interaction of oxygen functionalized alkenes with a methylaluminoxane–zirconocene catalyst studied by NMR, 164
Norbornene
On the behaviour of dimethyl acetylenedicarboxylate in carbonylation and Khand reactions, 90

Olefin complex
Synthesis and single crystal X-ray structure of $[(DMPE)_2\text{-}Ru(CH_2H_4)CH_3]^+[(3,5\text{-}(CF_3)_2C_6H_3)_4B]^-$, 122
Organogermanium chlorides
Trichlorosilylation of chlorogermanes and chlorostannanes with $HSiCl_3/Net_3$ followed by base-catalysed formation of $(Me_3Ge)_2Si(SiCl_3)_2$ and related branched stannylsilanes, 156
Organotin chlorides
Trichlorosilylation of chlorogermanes and chlorostannanes with $HSiCl_3/Net_3$ followed by base-catalysed formation of $(Me_3Ge)_2Si(SiCl_3)_2$ and related branched stannylsilanes, 156
Orthometallation
Orthomanganation of the iminophosphorane $Ph_3P$=NPh, and of triphenylarsine-oxide and -sulfide, 243
Oxidation
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst, 404
Oxidative dehydrogenation
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30

Palladium
A study on the catalytic pathways of the hydroalkoxycarbonylation reaction of styrene, 147
Palladium complexes
Cyclometallated compounds. XIII. Cyclopalladation of 2-phenoxypyridine and structurally-related compounds, 97
Synthesis and characterization of new allyl palladium complexes with thionate ligands; X-ray molecular structures of $[Pd_3(\eta^3\text{-}C_4H_7)_3\{pm(Me)_2S\}_2](CF_3SO_3)$ and $[Pd\{pm(Me)_2S\}_2]$, $\eta^3\text{-}C_4H_7 = \eta^3\text{-}2\text{-}Me\text{–}C_3H_4$, $pm(Me)_2S$ = Pyridine-4,6-dimethyl-2-thionate, 321
Peralkylated cyclopentadienes
Bulky peralkylated cyclopentadienes by extension of Jutzi's pentamethylcyclopentadiene procedure, 376
Phenylethynyl
Probing diruthenium $\sigma$-alkynyl bonding interactions via substituent effects. Linear free energy relationships in dinuclear compounds VI, 114
2-Phosphabicyclo[2.2.2]octene 2-oxide
The ability of 2-phosphabicyclo[2.2.2]oct-5-ene 2-oxides to undergo fragmentation of the bridging P-moiety, 182
Phosphine
Complexes exhibiting non-conventional solubility: synthesis and characterization of *trans*-$Pt[(CF_3(CF_2)_5(CH_2)_2)_3P]_2Cl_2$, 217
Electron-deficient triruthenium and triosmium clusters from the reaction of the cluster anions $[HM_3(CO)_{11}]^-$ (M = Ru, Os) with tricyclohexylphosphine in methanol, 285
Organometallic derivatives of multidentate phosphines [*o*-(methylthio)phenyl]diphenylphosphine and bis(*o*-(methylthio)phenyl(phenylphosphine: preparation and characterization of group 6 metal carbonyl derivatives, 45
($\alpha$-Phosphinoxyvinyl)phosphine
Synthesis and reactivity of acylphosphine tetracarbonyl–iron complexes, 198
Phosphorylation
The ability of 2-phosphabicyclo[2.2.2]oct-5-ene 2-oxides to undergo fragmentation of the bridging P-moiety, 182
Platinum
Complexes exhibiting non-conventional solubility: synthesis and characterization of *trans*-$Pt[(CF_3(CF_2)_5(CH_2)_2)_3P]_2Cl_2$, 217
Polycyclene
Bimetallische Allylkomplexe polycyclischer Kohlenwasserstoffe: Erste Beispiele aus der Übergangsmetallchemie, 139
Polymerization
Crystal structures and polymerization catalytic properties of 1,1,-2,2-tetramethyldisilane-bis(3-*t*-butyl-$\eta^5$-cyclopentadienyl) titanium and zirconium dichlorides, 24
Polyolefins
Ethylene and propylene polymerization by cationic monocyclopentadienyl titanium catalysts containing the weakly coordinating anion $[B(C_6F_5)_4]^-$, 106
Poly(pyrazolyl)borates
Derivative chemistry of $[UCl_2\{B(pz)_4\}_2]$: stability of complexes containing the fragments $[U\{B(pz)_4\}_2]$ and $[U\{HB(pz)_3\}_2]$, 5
Preparation
Preparation and characterization of $Mo_2C_2$, $Co_2Mo_2C_2$ clusters containing functionally substituted cyclopentadienyl ligands. The crystal structures of $[Mo_2(\mu\text{-}C_2HPh)(CO)_4(\eta^5\text{-}C_5H_4C(O)Me)_2]$ and $[Co_2Mo_2(\mu_4\text{-}C_2HPh)(\mu\text{-}CO)_4(CO)_4\text{-}(\eta^5\text{-}C_5H_4C(O)Me)_2]$, 304
Propene polymerization
Synthesis and characterization of 1- and 2-($\omega$-alken-1-yl)indenes, their lithium salts and dichlorozirconium(IV) complexes, 356
Pyridine-4,6-dimethyl-2-thionate
Synthesis and characterization of new allyl palladium complexes with thionate ligands; X-ray molecular structures of $[Pd_3(\eta^3\text{-}C_4H_7)_3\{pm(Me)_2S\}_2](CF_3SO_3)$ and $[Pd\{pm(Me)_2$-

S}$_2$], $\eta^3$-$C_4H_7$ = $\eta^3$-2-Me–$C_3H_4$, pm(Me)$_2$S = Pyridine-4,6-dimethyl-2-thionate, 321

Pyridine-2-thionate
Synthesis and characterization of new allyl palladium complexes with thionate ligands; X-ray molecular structures of [$Pd_3(\eta^3$-$C_4H_7)_3${pm(Me)$_2$S}$_2$]($CF_3SO_3$) and [Pd{pm(Me)$_2$-S}$_2$], $\eta^3$-$C_4H_7$ = $\eta^3$-2-Me–$C_3H_4$, pm(Me)$_2$S = Pyridine-4,6-dimethyl-2-thionate, 321

Rearrangement
Stereochemical factors associated with the rearrangement of (2-ethyl-1-azabuta-1,3-diene)tricarbonyliron(0) complexes, 53

Redox behavior
Synthesis and electrochemistry of ferrocenemethylamine and its conjugated acid. Crystal structure of ferrocenemethylammonium chloride, 222

Reductive coupling
Reductive dehydroxy coupling of 2-(hydroxymethyl)indenes to prepare ethano-bridged bis(2-indenyl) *ansa*-titanocenes, 338

Renewable resources
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst, 404

Rhenium
Silicagel support mediated nonphotolytic cleavage of the rhenium–rhenium bond of [{$NC_5H_4N$=$NC_6H_4$(R)}$(CO)_3$-$Re^0$]$_2$. Synthesis of the monomeric species $Re^I$-{$NC_5H_4N$=$NC_6H_4$(R)}$(CO)_3$Cl, crystal structure, spectroscopic and electron-transfer properties, 311

Ruthenium
Synthesis and single-crystal X-ray structure of [(DMPE)$_2$-$Ru(CH_2H_4)CH_3]^+$ [(3,5-$(CF_3)_2C_6H_3)_4B]^-$, 122

Ruthenium carbonyl
$Ru_3(CO)_{12}$-catalyzed reaction of yne–imines with carbon monoxide leading to bicyclic α,β-unsaturated lactams, 177

Sign determination
Tetrakis(trimethylstannyl) and bis(trimethylstannyl)dimethyl Group 14 element compounds, determination of coupling signs and measurements of isotope induced chemical shifts $^1\Delta^{12/13}C(^{119}Sn)$, 133

Silicon
Tetrakis(trimethylstannyl) and bis(trimethylstannyl)dimethyl Group 14 element compounds, determination of coupling signs and measurements of isotope induced chemical shifts $^1\Delta^{12/13}C(^{119}Sn)$, 133

Silver cluster
The synthesis, identification, and X-ray structure of a novel cationic alkynyl silver cluster polymer [$Ag_3(C_2Bu^t)_2^+]_n$, 59

Silylamines
Geometry and electronic structure of silylated hydroxylamine and carbamic acid derivatives, 38

Silylcarbamates
Geometry and electronic structure of silylated hydroxylamine and carbamic acid derivatives, 38

Silylgermanes
Trichlorosilylation of chlorogermanes and chlorostannanes with $HSiCl_3/Net_3$ followed by base-catalysed formation of $(Me_3Ge)_2Si(SiCl_3)_2$ and related branched stannylsilanes, 156

Silylhydroxylamines
Geometry and electronic structure of silylated hydroxylamine and carbamic acid derivatives, 38

Silylstannanes
Trichlorosilylation of chlorogermanes and chlorostannanes with $HSiCl_3/Net_3$ followed by base-catalysed formation of $(Me_3Ge)_2Si(SiCl_3)_2$ and related branched stannylsilanes, 156

Single-crystal X-ray structure analysis
NMR analysis of trinuclear silver(I) complexes with $\mu_2$-H bridged group VI metallocene hydrides as ligands and X-ray structure analysis of {[($\eta^5$-$MeC_5H_4)_2Mo(\mu_2$-H)$_2$]$_2$Ag}$PF_6$, 298

Solubility
Complexes exhibiting non-conventional solubility: synthesis and characterization of *trans*-Pt[$(CF_3(CF_2)_5(CH_2)_2)_3P]_2Cl_2$, 217

Stability
Derivative chemistry of [$UCl_2${$B(pz)_4$}$_2$]: stability of complexes containing the fragments [U{$B(pz)_4$}$_2$] and [U{$HB(pz)_3$}$_2$], 5

Stannaindan
Diarylstannylene reactions with some aryl azides: formation of different ring systems, 280

Stannylene
Diarylstannylene reactions with some aryl azides: formation of different ring systems, 280

Starch
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst, 404

Substituent effects
Substituent effects in cyclic voltammetry of titanocene dichlorides, 348

Substituted titanocene dichlorides
Substituent effects in cyclic voltammetry of titanocene dichlorides, 348

Sulfide
Reactions of [$PPh_4$][($\eta^5$-$C_5Me_5)WS_3$] with CuBr in $CHCl_3$: isolation and structures of an octanuclear cluster [($\eta^5$-$C_5Me_5)WS_3Cu]_4$ and a trinuclear cluster [($\eta^5$-$C_5Me_5)WS_3$-$Cu_2Br(PPh_3)_2$], 332

Sulfur
Organometallic derivatives of multidentate phosphines [*o*-(methylthio)phenyl]diphenylphosphine and bis(*o*-(methylthio)phenyl(phenylphosphine: preparation and characterization of group 6 metal carbonyl derivatives, 45

TEMPO
The selective catalytic oxidation of terminal alcohols: a novel four-component system with MTO as catalyst, 404

Tetraazastannoline
Diarylstannylene reactions with some aryl azides: formation of different ring systems, 280

Tetracarbonyl–iron complex
Synthesis and reactivity of acylphosphine tetracarbonyl–iron complexes, 198

Tetrahedron
Tetrakis[tris(trimethylsilyl)silylaluminium(I)] $Al_4[Si(SiMe_3)_3]_4$—eine siliziumreicheVerbindung mit zentralem tetraedrischem $Al_4$-Kern, 373

Thermostability
The ability of 2-phosphabicyclo[2.2.2]oct-5-ene 2-oxides to undergo fragmentation of the bridging P-moiety, 182

Thionate
Synthesis and characterization of new allyl palladium complexes with thionate ligands; X-ray molecular structures of [$Pd_3(\eta^3$-$C_4H_7)_3${pm(Me)$_2$S}$_2$]($CF_3SO_3$) and [Pd{pm(Me)$_2$-S}$_2$], $\eta^3$-$C_4H_7$ = $\eta^3$-2-Me–$C_3H_4$, pm(Me)$_2$S = Pyridine-4,6-dimethyl-2-thionate, 321

Thiophene
Hydrogenation of (1-phenylthiophene)$Mn(CO)_3$ (thiophene = 3-methylthiophene and 3,4-dimethylthiophene) complexes: formation of tetrakis(tricarbonyl-phenylthiomanganese), 385

Tin
Diarylstannylene reactions with some aryl azides: formation of different ring systems, 280

Tetrakis(trimethylstannyl) and bis(trimethylstannyl)dimethyl Group 14 element compounds, determination of coupling signs and measurements of isotope induced chemical shifts $^{1}\Delta^{12/13}C(^{119}Sn)$, 133

Titanium
Crystal structures and polymerization catalytic properties of 1,1,-2,2-tetramethyldisilane-bis(3-*t*-butyl-$\eta^5$-cyclopentadienyl) titanium and zirconium dichlorides, 24
Ethylene and propylene polymerization by cationic monocyclopentadienyl titanium catalysts containing the weakly coordinating anion $[B(C_6F_5)_4]^-$, 106
Reductive dehydroxy coupling of 2-(hydroxymethyl)indenes to prepare ethano-bridged bis(2-indenyl) *ansa*-titanocenes, 338
Synthesis and structures of paramagnetic binuclear ($\eta^8$-1,4-bis(trimethylsilyl)cyclooctatetraenide)titanium(III) chlorides, 126

Transition metal
Synthesis and characterization of the cluster compounds containing double $C_2M_2$ (M=Co, Mo) cores. The single-crystal X-ray structures of $[O(CH_2C_2H\text{-}\mu)_2][Co_2(CO)_6]_2$ and $[O(CH_2C_2H\text{-}\mu)_2][Mo_2(C_5H_5)_2(CO)_4]_2$, 227

Trichlorosilane
Trichlorosilylation of chlorogermanes and chlorostannanes with $HSiCl_3/Net_3$ followed by base-catalysed formation of $(Me_3Ge)_2Si(SiCl_3)_2$ and related branched stannylsilanes, 156

Trienes
Synthesis and some chemical properties of *s-cis*-diferrocenyltrienes. The role of stereoelectronic factors in cationic dimerization reactions, 30

Trinuclear
Electron-deficient triruthenium and triosmium clusters from the reaction of the cluster anions $[HM_3(CO)_{11}]^-$ (M = Ru, Os) with tricyclohexylphosphine in methanol, 285

Triphenylarsine oxide
Orthomanganation of the iminophosphorane $Ph_3P$=NPh, and of triphenylarsine-oxide and -sulfide, 243

Triphenylarsinesulfide
Orthomanganation of the iminophosphorane $Ph_3P$=NPh, and of triphenylarsine-oxide and -sulfide, 243

Tungsten
Cyclopentadienyl dithiocarbamate and dithiophosphate molybdenum and tungsten complexes, 190
Ditelluroether complexes of Group 6 metal carbonyls: synthesis, spectroscopic studies and a comparison with dithio- and diseleno-ether analogues, 235
Mixed-metal cluster chemistry XII: isocyanide derivatives of $[CpWIr_3(CO)_{11}]$; X-ray crystal structure of $[CpWIr_3(CO)_9(CNC_6H_3Me_2\text{-}2,6)_2]$, 75

Tungsten complex
Reactions of $[PPh_4][(\eta^5\text{-}C_5Me_5)WS_3]$ with CuBr in $CHCl_3$: isolation and structures of an octanuclear cluster $[(\eta^5\text{-}C_5Me_5)WS_3Cu]_4$ and a trinuclear cluster $[(\eta^5\text{-}C_5Me_5)WS_3Cu_2Br(PPh_3)_2]$, 332

Ultraviolet photoelectron spectroscopy
Geometry and electronic structure of silylated hydroxylamine and carbamic acid derivatives, 38

Unsaturated
Electron-deficient triruthenium and triosmium clusters from the reaction of the cluster anions $[HM_3(CO)_{11}]^-$ (M = Ru, Os) with tricyclohexylphosphine in methanol, 285

Uranium
Derivative chemistry of $[UCl_2\{B(pz)_4\}_2]$: stability of complexes containing the fragments $[U\{B(pz)_4\}_2]$ and $[U\{HB(pz)_3\}_2]$, 5

UV–vis spectra
Tetrakis[tris(trimethylsilyl)silylaluminium(I)] $Al_4[Si(SiMe_3)_3]_4$—eine siliziumreicheVerbindung mit zentralem tetraedrischem $Al_4$-Kern, 373

X-ray crystal structure
Bulky peralkylated cyclopentadienes by extension of Jutzi's pentamethylcyclopentadiene procedure, 376
Synthesis, redox chemistry, molecular and electronic structure of some cyclopentadienylcobalt pentafulvene complexes, 391

X-ray diffraction
Geometry and electronic structure of silylated hydroxylamine and carbamic acid derivatives, 38
The synthesis, identification, and X-ray structure of a novel cationic alkynyl silver cluster polymer $[Ag_3(C_2Bu^t)_2^+]_n$, 59

X-ray structure
Tetrakis[tris(trimethylsilyl)silylaluminium(I)] $Al_4[Si(SiMe_3)_3]_4$—eine siliziumreicheVerbindung mit zentralem tetraedrischem $Al_4$-Kern, 373

X-ray structure analysis
Complete carbonyl substitution in tricarbonylnitrosylcobalt, 1

Yne–imine
$Ru_3(CO)_{12}$-catalyzed reaction of yne–imines with carbon monoxide leading to bicyclic α,β-unsaturated lactams, 177

Ziegler–Natta catalysis
Ethylene and propylene polymerization by cationic monocyclopentadienyl titanium catalysts containing the weakly coordinating anion $[B(C_6F_5)_4]^-$, 106

Zirconium
Crystal structures and polymerization catalytic properties of 1,1,-2,2-tetramethyldisilane-bis(3-*t*-butyl-$\eta^5$-cyclopentadienyl) titanium and zirconium dichlorides, 24

Zirconocene–methylaluminoxane catalyst
Interaction of oxygen functionalized alkenes with a methylaluminoxane–zirconocene catalyst studied by NMR, 164